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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 3FPO-06-03	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/002081	International filing date (day/month/year) 09 OCTOBER 2003 (09.10.2003)	Priority date (day/month/year) 09 OCTOBER 2002 (09.10.2002)
International Patent Classification (IPC) or national classification and IPC IPC7 C12N 15/40		
Applicant CID Co., Ltd et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 6 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 09 MARCH 2004 (09.03.2004)	Date of completion of this report 26 JANUARY 2005 (26.01.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHANG, Je Hwan Telephone No. 82-42-481-8158 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002081

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
pages 1-118 125, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☒ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement) under Article 19
pages 119-124, filed with the demand
pages _____, filed with the letter of _____
- ☒ the drawings:
pages 1/16-16/16, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☒ the sequence listing part of the description:
pages 1-121, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☒ contained in the international application in written form.
- ☒ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. 2
- ☐ the drawings, sheets _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed," and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/002081

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1, 3-28	YES
	Claims	none	NO
Inventive step (IS)	Claims	3, 12, 15-17	YES
	Claims	1, 4-11, 13, 14, 18-28	NO
Industrial applicability (IA)	Claims	1, 3-28	YES
	Claims	none	NO

2. Citations and explanations (Rule 70.7)

The present invention relates to a novel genomic RNA of Japanese encephalitis virus (JEV) and infectious JEV cDNA therefrom. The present invention also relates to a vector including the JEV cDNA for the full-length JEV genomic RNA containing elements originated from the JEV genomic RNA or JEV cDNA and a JEV vaccine containing the same.

The following documents have been considered for the purpose of the report:

D1.: Genbank Accession No. U14163 (13 October 1994)
D2.: 1999/63095 (9 December 1999)

D1 discloses JEV mRNA which has about 98% homology to the genomic RNA sequence of the present invention. D2 discloses nucleic acid molecules containing transcription units encoding JEV and a vaccine containing the same.

The subject-matter of Claims 1, 4-11, 13, 14 and 18-28 relates to a genomic RNA of JEV, and infectious JEV cDNA therefrom, a vector including the JEV cDNA and a vaccine containing the same. From D1 and D2, it would be obvious to a skilled person in the art to identify a new JEV genomic RNA by performing PCR using the primers based on the known JEV sequence and prepare JEV vaccines containing the said JEV genomic RNA. Therefore, the subject-matter of Claims 1, 4-11, 13, 14 and 18-28 is not considered to involve an inventive step (PCT Article 33(3)).

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